

APPENDIX B: COMMUNICATIONS DEFINITIONS & SPECIFICATIONS

TYPE OF REQUEST:	Use BSC RJE (ABI Brokers, for example), SNA RJE, or NJE System-to-system connection. The NJE request requires special processing by both Network and Systems Engineering. This may also be an RJE ALIAS request to assign JES2 DESTID to an existing remote (on this system or on a connected Node), to support routing of output from various applications.
TYPE OF TERMINAL:	Use HARDWARE, MULTI-leaving, or System (like System/36="System3")
DEDICATED REMOTES:	These are non-dial-up terminals which require special processing by the Communications and the Systems Engineering Branches. Lines must be installed and assigned. Dedicated terminals do not require a password.
PASSWORDS:	The Communication Branch assigns access IDs when the remote definition is placed into production (for dial-up terminals only). Passwords will not be recorded on this form.
FEATURES SELECTED:	Check all option boxes that apply. If an option box is not coded in the JES2 parms, the usual result is to select the "NOoption" value.
ABUFEX:	The 2770 terminal feature for additional expanded buffers.
BUFSIZE:	This restricts the largest buffer sent to this terminal. The JES2 uses 400 for MULTIlleaving terminals if not specified.
COMP:	The terminal has compression feature. NOTABS is forced for COMP.
CONNECT:	This is required only for NODE that is not JES2 (POWER/VS, RSCS, etc.) to connect the two sites together. U.S. Customs has CONNECT MEMBA=1 on one system and CONNECT MEMBA=3 on the other system in order to support moving the JES2 NJE connections.

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CONSOLE:	The terminal has an operator console.
DISTINTV:	The time in seconds after which an idle session will be disconnected. Default is 180 seconds. Specify DISTINTV=0 for terminals attached to dedicated lines. A low value permits re-use of dial lines, especially lines with 800 area codes.
FIXED:	The fixed length (not variable) records for this terminal. Variable length records will be used if this is not selected.
MEMB:	This is "1" in a single system complex, otherwise input the number of the member to which JES2 should connect. See CONNECT: on the previous page.
MRF:	The IBM 2780 has multiple record feature.
NOTABS:	See TABS.
NUMPR:	Use this field if there is more than 1 printer. 1 is default.
NUMPU:	Use this field if there is 1 or more punches. Zero is the default.
NUMRD:	Use this field if there is more than 1 reader. 1 is the default.
PASSWORD:	Terminal passwords are required for all terminals not attached to dedicated lines.
PDIR:	This is the peripheral Data Information Record containing setup information for processing by terminal (copies and spooling of data at the remote station), to be processed by software in the receiving remote terminal.
RJE ALIAS:	This is an additional route code assigned by Systems Engineering, Network, or Communications that tells JES2, in shorthand, where to route output.

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ROUTECD:	Use this field for additional route codes assigned to this remote other than standard. If not coded, then JES2 uses the remote number as the only route code. Aliases assigned via JES2 DESTID table provide additional route codes. See RJE ALIAS.
SETUPACT:	These are messages for operator setup are "action" messages that must be manually deleted.
SETUPHDR:	This field sends the PDIR to this SNA terminal. Send SHASP190 SETUP message otherwise. This option requires special software in the receiving terminal.
SETUPINF:	All printer setup messages are informational and are "rolled off" the operator console as the screen is filled. See SETUPACT.
TABS:	The hardware terminal has horizontal format control feature. NOTABS is forced if COMP is selected.
TRANSP:	The terminal has text transparency feature. All lines have the TRANSP feature defined, but if this option is not selected, the NOTRANSF for the remote overrides and results in NOTRANSF.
UNBLOCK:	The record format for this terminal is unblocked records. BLOCKED records are used otherwise.
WAITIME:	The time in seconds to wait between transmissions for manual operator command. The default is 5 seconds.

Communications Specifications

Automated Export System Trade Interface Requirements (AESTIR)

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The participant wanting dedicated service must formally request this communications link through their client representative. Once approved, the participant will be responsible for:

- Ordering the telephone connection from a vendor of their choice.
- Ordering modems.
- Forwarding the following information to the Client Representative:
 - a) Vendor name and expected date of installation for the telephone connection.
 - b) Type of modems ordered and expected delivery date at the U.S. Customs Service Data Center.

The following table lists the data transmission rates supported by the United States Customs Service (USCS) and the modem type associated with that transmission rate. This includes dial-up and dedicated communications lines.

Transmission Rate	Modem Type or Equivalent (AT&T)	Protocol Supported
2400	201 C	2780/3780 HASP/JES2
4800	208 B	2780/3780 HASP/JES2 SNA/SDLC
9600*	2096	2780/3780 HASP/JES2 SNA/SDLC

The following IBM publications are recommended for debugging communications protocol problems:

- IBM 2780 Data Transmission Component Description Manual GA27-3005.

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- IBM 3780 Component Information for the IBM 3780 Data Communications Terminal GA27-306-3.
- Binary Synchronous Communications GA-27-3004.
- * Participants choosing the V.32 compatible should contact USCS Communications prior to purchase.
- * New participants are required to communicate at 9600 baud rate using SNA/SDLC protocol on V.32 modem.